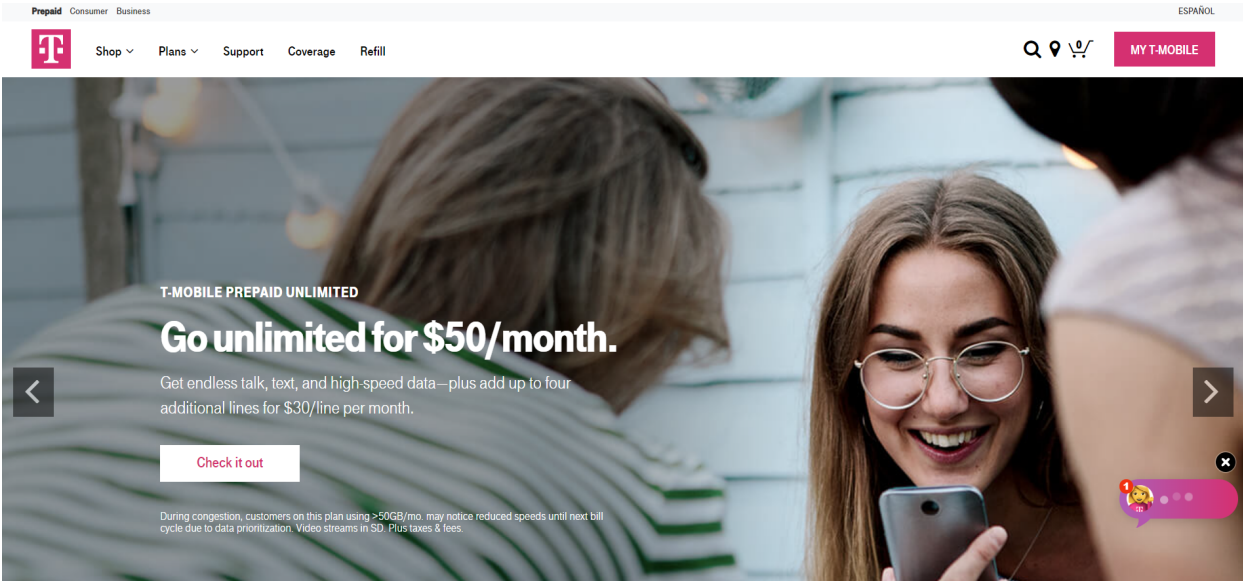


EXHIBIT 7

Exhibit H - U.S. Patent No. 9,198,042 (“’042 Patent”)

Accused Instrumentalities: smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by T-Mobile in conjunction with T-Mobile’s servers, hardware, software, and services leased, owned, supported, and/or operated by T-Mobile comprising for use with T-Mobile’s wireless network services, and all versions and variations thereof since the issuance of the asserted patent.

Issued Claim(s)	Public Documentation
1. A method comprising:	To the extent the preamble is limiting, T-Mobile’s Accused Instrumentalities practice the steps of a method as set forth in the limitations below.
1[a] receiving, over a service control link, a report from a wireless end-user device, the report comprising information about a device service state;	<p>The Accused Instrumentalities comprise receiving, over a service control link, a report from a wireless end-user device, the report comprising information about a device service state. T-Mobile offers telecommunications service plans to customers that are provided through various network elements such as telecommunications base stations and cell sites, edge servers, and other telecommunications servers. T-Mobile provides various network service plans to customers for purchase, including through the T-Mobile.com website as well as through T-Mobile-provided services such as its pre-paid mobile service category, T-Mobile Prepaid Unlimited. <i>See, e.g.:</i></p>  <p>https://prepaid.t-mobile.com/home</p>

<https://prepaid.t-mobile.com/plan-detail/t-mobile-prepaid-plans>

Upgrade-ready every year

Get a 3rd line FREE for new customers

Go5G Next

\$100/mo. \$105/mo.

for 1 phone line w/AutoPay discount using an [eligible payment method](#).

Taxes & fees included

Upgrade your phone as often as every year. Enjoy great device deals for new & existing customers and all the amazing benefits of Go5G Plus, like unlimited premium data and entertainment on us.

Includes:

- All the great benefits shown above
- Taxes & fees included
- Unlimited premium data¹
- Netflix on Us (1-screen)
- 50GB high-speed mobile hotspot

View full plan details >

Select phone plan

Upgrade-ready every two years

Get a 3rd line FREE for new customers

Go5G Plus

\$90/mo. \$95/mo.

for 1 phone line w/AutoPay discount using an [eligible payment method](#).

Taxes & fees included

New & existing customers always get the same device deals and can upgrade every two years with New in Two. Plus, enjoy benefits like unlimited premium data, streaming entertainment,& travel perks.

Includes:

- All the great benefits shown above
- Taxes & fees included
- Unlimited premium data¹
- Netflix on Us (1-screen)
- 50GB high-speed mobile hotspot

View full plan details >

Select phone plan

Get a 3rd line FREE for new customers

Essentials

\$60/mo. \$65/mo.

for 1 phone line w/AutoPay discount Plus tax and fees using an [eligible payment method](#).

Get an unlimited phone plan with all the essential benefits you need including 5G access.

Includes:

- All the great benefits shown above
- 50GB premium data¹
- Unlimited 3G mobile hotspot data incl.
- Unlimited 5G & 4G LTE with 50GB of Premium Data¹
- No annual service contract required

View full plan details >

Select phone plan

<https://www.t-mobile.com/cell-phone-plans>

T-Mobile sells mobile devices such as phones, tablets, and hotspot access points which communicate with the T-Mobile wireless service network, which is a wireless access network. Such devices comprise end-user devices, as do devices which customers purchase elsewhere and “bring” to the T-Mobile network. *See, e.g.:*

Help me choose

T

Plans Phones & devices Deals Coverage Join Us

My account

Shop

Phones 44 items

Sort by: Featured

Get a fast and easy financing decision. (This won't affect your credit score.)

See what I qualify for

See 6 deals

See 6 deals

See 6 deals

Apple iPhone 14 Pro

Apple iPhone 14 Pro Max

Apple iPhone 14

Starting at

Starting at

Starting at

Monthly Today

Monthly Today

Monthly Today

https://www.t-mobile.com/cell-phone/apple-iphone-14?sku=194253749...

<https://www.t-mobile.com/cell-phones?INTNAV=tNav:Devices:CellPhones>

Help me choose

Hotspots & more

Accessories

All Accessories

Cases & covers

Chargers & adapters

Gaming

Headphones

Mounts & Phone Grips

Others

+ more

Filters

☐ Motorola

☐ Nokia

☐ Google

T

Plans

Phones & devices


Deals

Coverage

Join Us

My account

See 4 deals



Samsung

★ 4.5 (2)

Galaxy Z Flip5

Starting at

Monthly

\$0

\$44.67 for 24 months


Today

\$0

down + tax

Full price: \$999.99

See 4 deals



Samsung

★ 5.0 (1)

Galaxy Z Fold5

Starting at

Monthly

\$75.00

for 24 months before promotion


Today

\$0

down + tax

Full price: \$1,799.99

See 5 deals



Samsung

★

Galaxy S23

Starting at

Monthly

\$33.34

for 24 months before promotion

Today

\$0

down + tax

Full price: \$799.99

Looking for the newest Samsung Galaxy? Chat with us!

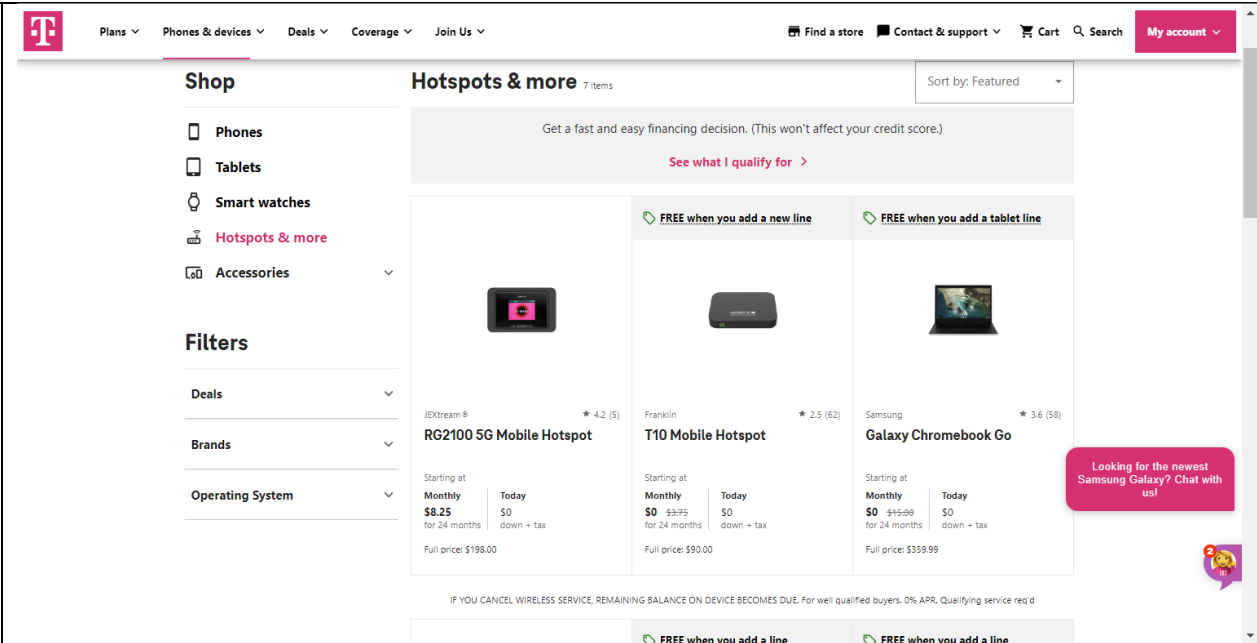
1

Chat

IF YOU CANCEL WIRELESS SERVICE, REMAINING BALANCE ON DEVICE BECOMES DUE. For well qualified buyers.

<https://www.t-mobile.com/cell-phones/brand/samsung>


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<https://www.t-mobile.com/hotspots-iot-connected-devices>

The Accused Instrumentalities use different service plans to provide service, for example, to mobile hotspot devices, mobile phones and tablets provisioned with an “unlimited” data plan, mobile phones and tablets provisioned with a prepaid plan, mobile phones and tablets which for which the associated subscriber account has reached its allotted data limit for the service period, and mobile phones and tablets which are specifically communicating with T-Mobile servers to purchase or increase data allotments (e.g., a T-Mobile “Data Pass”).

See, e.g.:



Plans ▾Phones & devices ▾Deals ▾Coverage ▾Join Us ▾



My account ▾

SupportGet started ▾Account resources ▾Network & roaming ▾Plans support ▾Device assistance ▾Business support ▾

Add to a prepaid plan

To purchase a pass on your prepaid plan, call T-Mobile customer service [1-877-746-0909](tel:1-877-746-0909) for assistance.

- You can get a 1-day pass or a 1-week (7-day) pass.
- Automated account help and customer service representatives are available 24 hours a day, 7 days a week.
- For the hearing impaired, TTY service is available by calling [1-877-296-1018](tel:1-877-296-1018), 7 days a week, from 3 a.m.-10 p.m. PT.

Add to a prepaid Mobile Internet (MI) plan

- Prepaid Mobile Internet (MI) plans provide data service on devices such as laptop sticks, tablets, and mobile hotspots.
- To add prepaid Mobile Internet, [log in to your T-Mobile.com](#) account.

Add to a T-Mobile Internet Lite plan

To purchase a pass on your Internet Lite plan, contact us at [1-800-866-2453](tel:1-800-866-2453) for assistance.

- If you have a 300 GB Internet Lite plan, you can purchase a 10 GB Internet Lite Data Pass (\$10 per line) or 25 GB Internet Lite Data Pass (\$20 per line)
- You will receive a message to your gateway and an email (if you have an email address on file) at 80%, 95%, and 100% consumption of the Lite Data Pass.
- If you need to add a Lite Data Pass to supplement your data each month, you may benefit from a higher data plan. Use the [Internet Data Estimator](#) to get a recommendation for the best Internet Lite plan for you.
- Check out [T-Mobile Internet Lite](#) for more information about how to check your data and manage your plan.
- If you have a T-Mobile Backup Internet plan and need additional data, contact us at [1-800-866-2453](tel:1-800-866-2453) to review your options.

<https://www.t-mobile.com/support/plans-features/data-passes#prepaid>

Verizon’s network receives service plan information from devices which correspond to the subscriber service plan associated with that wireless end-user device, which is a report comprising information about a device service state. For example, Verizon’s network receives an attach request, bearer resource allocation request, bearer resource modification request, or PDN connectivity request from a wireless end-user device (UE), which includes a report comprising information about the UE’s service state such as UE network capability, UE status, and protocol configuration options (PCO):

Table 8.2.4.1: ATTACH REQUEST message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 9.2	M	V	1/2
	Security header type	Security header type 9.3.1	M	V	1/2
	Attach request message identity	Message type 9.8	M	V	1
	EPS attach type	EPS attach type 9.9.3.11	M	V	1/2
	NAS key set identifier	NAS key set identifier 9.9.3.21	M	V	1/2
	EPS mobile identity	EPS mobile identity 9.9.3.12	M	LV	5-12
	UE network capability	UE network capability 9.9.3.34	M	LV	3-14
	ESM message container	ESM message container 9.9.3.15	M	LV-E	5-n
19	Old P-TMSI signature	P-TMSI signature 9.9.3.26	O	TV	4
50	Additional GUTI	EPS mobile identity 9.9.3.12	O	TLV	13
52	Last visited registered TAI	Tracking area identity 9.9.3.32	O	TV	6
5C	DRX parameter	DRX parameter 9.9.3.8	O	TV	3
31	MS network capability	MS network capability 9.9.3.20	O	TLV	4-10
13	Old location area identification	Location area identification 9.9.2.2	O	TV	6
9-	TMSI status	TMSI status 9.9.3.31	O	TV	1
11	Mobile station classmark 2	Mobile station classmark 2 9.9.2.4	O	TLV	5
20	Mobile station classmark 3	Mobile station classmark 3 9.9.2.5	O	TLV	2-34
40	Supported Codecs	Supported Codec List 9.9.2.10	O	TLV	5-n
F-	Additional update type	Additional update type 9.9.3.0B	O	TV	1
5D	Voice domain preference and UE's usage setting	Voice domain preference and UE's usage setting 9.9.3.44	O	TLV	3
D-	Device properties	Device properties 9.9.2.0A	O	TV	1
E-	Old GUTI type	GUTI type 9.9.3.45	O	TV	1
C-	MS network feature support	MS network feature support 9.9.3.20A	O	TV	1
10	TMSI based NRI container	Network resource identifier container 9.9.3.24A	O	TLV	4
6A	T3324 value	GPRS timer 2 9.9.3.16A	O	TLV	3
5E	T3412 extended value	GPRS timer 3 9.9.3.16B	O	TLV	3
6E	Extended DRX parameters	Extended DRX parameters 9.9.3.46	O	TLV	3
6F	UE additional security capability	UE additional security capability 9.9.3.53	O	TLV	6
6D	UE status	UE status 9.9.3.54	O	TLV	3
17	Additional information requested	Additional information requested 9.9.3.55	O	TV	2

Table 8.3.8.1: BEARER RESOURCE ALLOCATION REQUEST message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 9.2	M	V	1/2
	EPS bearer identity	EPS bearer identity 9.3.2	M	V	1/2
	Procedure transaction identity	Procedure transaction identity 9.4	M	V	1
	Bearer resource allocation request message identity	Message type 9.8	M	V	1
	Linked EPS bearer identity	Linked EPS bearer identity 9.9.4.6	M	V	1/2
	Spare half octet	Spare half octet 9.9.2.9	M	V	1/2
	Traffic flow aggregate	Traffic flow aggregate description 9.9.4.15	M	LV	2-256
	Required traffic flow QoS	EPS quality of service 9.9.4.3	M	LV	2-14
27	Protocol configuration options	Protocol configuration options 9.9.4.11	O	TLV	3-253
C-	Device properties	Device properties 9.9.2.0A	O	TV	1
33	NBIFOM container	NBIFOM container 9.9.4.19	O	TLV	3-257
7B	Extended protocol configuration options	Extended protocol configuration options 9.9.4.26	O	TLV-E	4-65538
5C	Extended EPS QoS	Extended quality of service 9.9.4.30	O	TLV	12

Table 8.3.10.1: BEARER RESOURCE MODIFICATION REQUEST message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 9.2	M	V	1/2
	EPS bearer identity	EPS bearer identity 9.3.2	M	V	1/2
	Procedure transaction identity	Procedure transaction identity 9.4	M	V	1
	Bearer resource modification request message identity	Message type 9.8	M	V	1
	EPS bearer identity for packet filter	Linked EPS bearer identity 9.9.4.6	M	V	1/2
	Spare half octet	Spare half octet 9.9.2.9	M	V	1/2
	Traffic flow aggregate	Traffic flow aggregate description 9.9.4.15	M	LV	2-256
5B	Required traffic flow QoS	EPS quality of service 9.9.4.3	O	TLV	3-15
58	ESM cause	ESM cause 9.9.4.4	O	TV	2
27	Protocol configuration options	Protocol configuration options 9.9.4.11	O	TLV	3-253
C-	Device properties	Device properties 9.9.2.0A	O	TV	1
33	NBIFOM container	NBIFOM container 9.9.4.19	O	TLV	3-257
66	Header compression configuration	Header compression configuration 9.9.4.22	O	TLV	5-257
7B	Extended protocol configuration options	Extended protocol configuration options 9.9.4.26	O	TLV-E	4-65538
5C	Extended EPS QoS	Extended quality of service 9.9.4.30	O	TLV	12

Table 8.3.20.1: PDN CONNECTIVITY REQUEST message content

IEI	Information Element	Type/Reference	Presence	Format	Length
	Protocol discriminator	Protocol discriminator 9.2	M	V	1/2
	EPS bearer identity	EPS bearer identity 9.3.2	M	V	1/2
	Procedure transaction identity	Procedure transaction identity 9.4	M	V	1
	PDN connectivity request message identity	Message type 9.8	M	V	1
	Request type	Request type 9.9.4.14	M	V	1/2
	PDN type	PDN type 9.9.4.10	M	V	1/2
D-	ESM information transfer flag	ESM information transfer flag 9.9.4.5	O	TV	1
28	Access point name	Access point name 9.9.4.1	O	TLV	3-102
27	Protocol configuration options	Protocol configuration options 9.9.4.11	O	TLV	3-253
C-	Device properties	Device properties 9.9.2.0A	O	TV	1
33	NBIFOM container	NBIFOM container 9.9.4.19	O	TLV	3-257
66	Header compression configuration	Header compression configuration 9.9.4.22	O	TLV	5-257
7B	Extended protocol configuration options	Extended protocol configuration options 9.9.4.26	O	TLV-E	4-65538

3GPP TS 24.301 v15.03

Flows

There are three scenarios where the PCO value will be passed to the host:

- When a new PCO value has arrived on an activated connection
- When an app or service queries for the latest PCO value from the modem
- When a connection is bridged or activated for the first time and a PCO value already exists in the modem

For the first scenario, the modem should send an [NDIS_STATUS_WWAN_PCO_STATUS](#) notification to the OS indicating a new PCO value change whenever a new PCO value is received from the network, with the appropriate NDIS port number to represent the corresponding PDN. To avoid draining the battery unnecessarily, the modem should avoid noisy notifications, as described in [Modem behavior with Selective Suspend and Connected Standby](#).

For the second scenario, when an app or service queries for PCO value from the modem on an activated PDN connection, the host will send the modem an [OID_WWAN_PCO](#) query request to read the latest cached PCO value in the modem.

For the third scenario, when a connection is activated or bridged on the host, the modem should send an [NDIS_STATUS_WWAN_PCO_STATUS](#) notification when a PCO value already exists in the modem for the activated or bridged connection the host requested. The notification should be passed up from the corresponding NDIS port number of the PDN.

	https://learn.microsoft.com/en-us/windows-hardware/drivers/network/mb-protocol-configuration-options-pco-operations
<p>1[b] determining, based on the report, that a particular service policy setting of the wireless end-user device needs to be modified, the particular service policy setting being stored in a protected partition of the wireless end-user device, the protected partition configured to deter or prevent unauthorized modifications to the particular service policy setting, the particular service policy setting being associated with a service profile that provides for access by the wireless end-user device to a network data service over a wireless access network, the particular service policy setting configured to assist in controlling one or more communications associated with the wireless end-user device over the wireless access network; and</p>	<p>The Accused Instrumentalities comprise “determining, based on the report, that a particular service policy setting of the wireless end-user device needs to be modified, the particular service policy setting being stored in a protected partition of the wireless end-user device, the protected partition configured to deter or prevent unauthorized modifications to the particular service policy setting, the particular service policy setting being associated with a service profile that provides for access by the wireless end-user device to a network data service over a wireless access network, the particular service policy setting configured to assist in controlling one or more communications associated with the wireless end-user device over the wireless access network.”</p> <p>Examples of such service policy settings on the wireless end-user device include, for example, APN access settings and service plan settings stored on the wireless end-user device, including for example in an encrypted partition of the device or in an encrypted SIM card. Such service policy settings are configured to assist in controlling one or more communications associated with the wireless end-user device over the wireless access network, insofar as the policies are used by T-Mobile to determine the levels of service that are to be provided to the wireless end-user device.</p> <p>Carrier configuration information (which is service profile information) on a given wireless end-user device is secured within the device through the use of privileges and other access settings, including through the use of matching signatures between the carrier settings and one stored with the SIM card information. <i>See, e.g.:</i></p> <p>Manually update your carrier settings on your iPhone or iPad</p> <p>Carrier settings updates let your carrier provider update carrier network and related settings to improve cellular network connectivity and performance. Carrier settings updates can also add support for new features like 5G or Wi-Fi Calling.</p> <p>When a carrier settings update is available, you'll be prompted to install it. Installation takes less than one minute, and you can keep using your device normally. If your carrier releases a mandatory update, you'll see an OK button instead of an Update button to let you know that the update was downloaded and installed.</p> <p>https://support.apple.com/en-us/HT201270</p>